

Attorney Docket No.: 9409/2122

U.S. Serial No. 09/011,797

Inventor: Parmentier, et al.

Filed U.S.: July 23, 1998

Amendment and Remarks In Response to Examiner Interview

Page 2 of 6

OK to show
Please amend claims 35, 37-42, 47, 51 and 52 as follows.

35. (Amended) An isolated polynucleotide comprising a nucleic acid sequence listed as SEQ ID NO:1 or a complementary strand thereof.

37. (Amended) An isolated polynucleotide comprising more than 15 contiguous nucleotides of a sequence listed as SEQ ID NO:1 or a complementary strand thereof.

38. (Amended) An isolated peptide encoded by an isolated polynucleotide comprising a sequence listed as SEQ ID NO: 1 or a complementary strand thereof.

39. (Amended) An isolated peptide comprising the peptide listed as SEQ ID NO:2.

40. (Amended) An isolated polynucleotide comprising a nucleic acid encoding a peptide selected from the group consisting of SEQ ID NO: 2, SEQ ID NO:3, and SEQ ID NO:4.

41. (Amended) An isolated peptide comprising the peptide listed as SEQ ID NO:3.

42. (Amended) An isolated peptide comprising the peptide listed as SEQ ID NO:4.

47. (Amended) A vector comprising an isolated polynucleotide according to claim 35 or 40.

51. (Amended) A method for recovering an antagonist or an agonist of an isolated peptide according to any of claims 38, 39, 41, or 42, said antagonist or said agonist being capable of specifically binding to an opioid receptor-like 1 (ORL₁) receptor present on a cell surface, said method comprising the steps of:

preparing a cell extract from cells comprising a vector adapted for expression in said cells, said vector comprising a polynucleotide which expresses said receptor on the cells' surface;

isolating a membrane fraction from said cell extract;

incubating compounds present within said membrane fraction with said peptide under conditions permitting said peptide to bind specifically to said receptor;

detecting the presence of compounds, if any, bound to said receptor; and recovering said bound compounds as the antagonist or the agonist.